

TITLE OF THE INVENTION

MURAMIC ACID DERIVATIVE COMPOUNDS

ABSTRACT OF THE DISCLOSURE

5 The present invention pertains to the combinatorial synthesis of
antibacterial agents that inhibit the Mur-pathway enzymes involved in bacterial cell
wall assembly. The method uses p-alkoxybenzylidene as the linker for the attachment
of a derivatized muramic acid to the polymeric resin support. This intermediate
becomes the starting point for the combinatorial synthesis, which in conjunction with
10 split-pooling techniques allows rapid synthesis of diverse analogues for high-
throughput screening (HTS). The invention is further directed to the libraries of these
finished compounds that vary at the peptide, N-acyl and anomeric UDP positions.